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## A NOTE ABOUT THE SUBJECT INDEX

The subject index for 1988-89 has been generated by computer processing of paper titles. No reference has been made to the actual content of the articles. This means that only concepts explicitly mentioned in the authors' titles are included. The computer has no source of information about possible cross relations among disciplines, or even of topics within disciplines. It has been "trained" only to attempt partial parsing of English statements (more specifically, to identify probable nouns and noun phrases) for the purposes of permuting titles and creating plausible entries, each starting with a useful indexing word.

In those cases where parsing has failed (for instance, where adjectives or adverbs have been mis-identified as nouns), more or less garbled entries have resulted. A human editor has skimmed through in an effort to identify and remove them. In addition, some minor liberties were taken with the original titles as they were input. ("Next Steps: Quo Vadis?" is not a title likely to produce useful index output.) But in general, the wording of index entries directly reflects the wording of the original title. If the entry point is not the original first word of the title, a semicolon inside the entry will identify the original beginning point. In those cases the first comma in the entry usually marks the permutation point of the leading noun phrase. There are exceptions. Many common words have been judged to be unhelpful, and entries starting with these have been suppressed by stoplists. Some common concepts are sometimes referred to in titles by their full names and at other times by their abbreviations or acronyms. To the extent that these have been tabulated ahead of time, they have been included in equivalence lists that give rise to automatic *see* or *see also* references.

Three user tests for a satisfactory subject index might be stated as: "How easily can you find the topic you want?", then (having found it) "How easily can you eliminate references to it that you don't want?", and finally "How sure can you be that you haven't missed something?"

From the publisher's point of view a fourth test must be added: "How can you pay for it?" In a perfect world there would be money to pay a scientific generalist with specific training in indexing to read every paper and create the ideal index, overlooking nothing and holding the finished product to a predetermined and manageable number of pages. In the less-than-perfect world we all inhabit, the present experimental index is a compromise. Its major flaw in terms of quickly finding a desired topic is probably its verbosity, but that same flaw may be a help in eliminating unwanted references. The complicated permutations admittedly do not make for easy reading but with a little persistence in locating semicolons and following inversion commas, the original titles can be reconstructed. If they were useful titles, the index entries will be useful. If they were not, perhaps authors can be persuaded to think ahead to the index in future when constructing titles.

Why not the better known KWIC or KWOC or KWAC or a straight permuted title index? All these machine products have their advocates, and most users have learned to cope. We are still looking for a better way—an index style that can be economically machine-generated but still have something of the "feel" of a dialogue between indexer and user, so that it will function not only as a set of signposts, but may also tempt the browser and encourage serendipity.

Some peculiarities specific to this index:

1. Colons in the original titles have generally been rendered as the expression "Relative to".
2. Hyphens have been sorted after wordspaces in order to group similarly-spelled entries for the purpose of avoiding duplicate headings. This has in some cases separated closely related ideas and is not what a skilled indexer would have done.
3. Digits have been sorted after "Z," which is old IBM style, once (but no longer) the standard. This will be changed for next time.
4. Singular and plural forms of noun headings have not been consolidated. This means that the user must check for both forms.
5. In chemical or mathematical expressions with modifying prefixes (e.g., 2,4,5-Trichlorophenoxyethanol) the computer has been taught to try to identify the prefixes and ignore them in sorting. This has met with varying degrees of success. The user is warned to take nothing for granted.
6. To avoid interior question marks in permuted statements, the phrase "Question of Whether" has generally been substituted.

Comments are welcome and should be addressed to Justine Cullinan at the Academy. There is obviously room for improvement, and modifications are planned.

VANCE WEAVER

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